

#### SEQUENCE LISTING

- (1) GENERAL INFORMATION:
  - (i) APPLICANT: Cynader, Max Prasad, Shiv
  - (ii) TITLE OF INVENTION: GENE SEQUENCES ASSOCIATED WITH NEURAL PLASTICITY AND METHODS RELATED THERETO
  - (iii) NUMBER OF SEQUENCES: 132
    - (iv) CORRESPONDENCE ADDRESS:
      - (A) ADDRESSEE: Seed Intellectual Property Law Group PLLC
      - (B) STREET: 701 Fifth Avenue, Suite 6300
      - (C) CITY: Seattle
      - (D) STATE: Washington
      - (E) COUNTRY: USA
      - (F) ZIP: 98104-7092
    - (v) COMPUTER READABLE FORM:
      - (A) MEDIUM TYPE: Floppy disk
      - (B) COMPUTER: IBM PC compatible
      - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
      - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
    - (vi) CURRENT APPLICATION DATA:
      - (A) APPLICATION NUMBER: US
      - (B) FILING DATE: 28-APR-1999
      - (C) CLASSIFICATION:
  - (viii) ATTORNEY/AGENT INFORMATION:
    - (A) NAME: Potter, Jane E. R.
    - (B) REGISTRATION NUMBER: 33,332
    - (C) REFERENCE/DOCKET NUMBER: 230018.401C1
    - (ix) TELECOMMUNICATION INFORMATION:
      - (A) TELEPHONE: (206) 622-4900
      - (B) TELEFAX: (206) 682-6031
- (2) INFORMATION FOR SEQ ID NO:1:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 62 base pairs
    - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:	
CCTGGCTGCC TGTGCCTCAA CCCCACTCCC AGGGAGACCA AAAGCCTTCA TACATCTGAA	60
AT	62
(2) INFORMATION FOR SEQ ID NO:2:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 92 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
GCGACGGACG AGATGTCTTC GGTGTCCTTG CGTTCGCTAC CAGGTCAAAA TGCAAATCTT	60
	92
CGTGAAAACC CTGACGGCA AGACCATCAC CC	92
(2) INFORMATION FOR SEQ ID NO:3:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 114 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
TTTTTTTTAA TTGAGAAAGA CATAATGGTT ATGGCATTGG CTTGAAACCA GTTAAACACC	60

GTTTCGATTC CTTCCTTTCT TATTTTAATA GTACGTTAAG	TTGGCTCTTC	AAAT 114	
(2) INFORMATION FOR SEQ ID NO:4:			
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 86 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:			
ATCCATACTT GCTATTTATT TAGGCTTCTA GTTTGGAACA	AAAGGNCAAG	AGTTAAAAAA 60	)
ATGCCAACAT TTCAAGGACC CTTGTT		86	
(2) INFORMATION FOR SEQ ID NO:5:			
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 112 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>		·	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:			
CTTCCCCCAC TCATCCCTGC TCTGGTCCCT TGTGCCCCTT	GGCCCTTTAC	CCCAAGCACC 60	r
ACCCCACAGA CTGGGGACCA GCCCCCTCTC CTGCCTATGT	CTCGCCCCAA	AT 112	
(2) INFORMATION FOR SEQ ID NO:6:			
<ul> <li>(i) SEQUENCE CHARACTERISTICS:         <ul> <li>(A) LENGTH: 126 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> </ul>			

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
CCTTCCCTTC CTTACTTTAA TAGTTCGGTA GTACGGANGT TAAATCTTCA GGTCGGTGGT	60
ACGCAGCCGG GCAACCATGC AATGGATTNA AGGTNGGTAA TGGTACAATT GGCCTATGCC	120
CACTTT	126
(2) INFORMATION FOR SEQ ID NO:7:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 121 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
CTTTAGAGCG CACTCAGGGG CACTTGNAAG GGCTTCTCAC GAGCGTGGCT GTGGCCATCT	60
GTGGAAAGAG CTTCTCGCAG TGNTCGGTNG NNTTATCCCC CACGCCCNTA GNGCACTACT	120
c	121
(2) INFORMATION FOR SEQ ID NO:8:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 94 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

TTAGTTTCAC ATTCAAGGGG CTTATGAAGA GATGCAAGTC AGGATACATA GGCTTGATTC

60

TTGGCAGCTT AATGAGTATT CACTGAGGCA CTTG	94
(2) INFORMATION FOR SEQ ID NO:9:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 76 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
CCGCCTGATA TAGACACTTC GTAGAGCGTA GTTTGACTAT TCCTATACGT TTCTATTTAT	60
TGATGAGGAT CCTAAA	76
(2) INFORMATION FOR SEQ ID NO:10:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 148 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
TTTATTATGC ACACGTTGTT CAAATAAACC AGTGTGGGAT GTTAAGACTA TCAATTAATG	60
GTGGGATTAT GTTTGGCATT TTATTNNTTA TAAATATATA TTTTTTCTGA ATGTGTCCTG	120
AGNTCCAAAG AGGTTGGGGG NGGGGGNG	148
(2) INFORMATION FOR SEQ ID NO:11:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 144 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	
TTTCCTTGGG TTGCTGGTTG GATTAATCTT TAATAACAAT ATATAGAATT GTAGACTGAT	60
GTTTTAGTGT TTTTCCAACA CACAAACATA AAAATAAAAA CAAGTCGGAC CGCTACTTCT	120
GTGTAAATCA AGATCNTTGG GGAA	144
(2) INFORMATION FOR SEQ ID NO:12:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 139 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:	
CCTGGCCAGC GGGCAGGCCC ACGAAGGCAA GATCGGTCGT TGTGCTTGTG TTTTCCAAGG	60
AGACGANCCN ATNANCTGTA AATATGTACA CGTNTCTGTC TGTGTGTCCT TCGNGGNAGG	120
ATGGTCGGNT CTATTTAAA	139
(2) INFORMATION FOR SEQ ID NO:13:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 139 base pairs	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

(B) TYPE: nucleic acid (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

CCAAAATATA TTTGGGCCAA ATGTTCCGAG GATGAGTCAG GCTGTCCTTC GCGCGGGCGA	60
GACGAAGCTT CACACGGGAC AAGATGGGAT GGGTTGGAGG AATGGATGGT CCCCCAAACA	120
ATGGGCTTAN AANAATTAT	139
(2) INFORMATION FOR SEQ ID NO:14:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 121 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:	
TTTACTGACA AGCATGGGGA AGTGTGCCCA GCTGGCTGGA AGCTGGCAGT GATACCATCA	60
AGCCTGATGT CCAGAAGAC AAAGAATATT TCTCTAAGCA GAAGTGAGCG CTAGGCCTTT	120
T	121
(2) INFORMATION FOR SEQ ID NO:15:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 132 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
•	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:	
CGGCTTCCTG GGCTTTATCG TATGAGCCCA TCACATGTTT ACTGTAGGAA TGGATGTAGA	60
CACACGAGCA TACTTTACAT CAGCCACTAT AATTATTGCC ATTCCTACCG GGGTGAAAGT	120
ATTTAGTTGA CT	132
(2) INFORMATION FOR SEQ ID NO:16:	

<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 130 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(with Groverial programmers and the second	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:	
GGAGCTTGAA GAAGAAGTTT TTTACCACCG TCTTTTTCTA CTTTATACAG AAGTAGATAT	60
TCCTGCGAAG AAGAATAATT TGGGGTAATA TGCAAGCTAG TAGATGTGGC ACAGCAAATC	120
ATATAATAAA	130
(2) INFORMATION FOR SEQ ID NO:17:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 209 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:	
ACCCCACCCA GAGCCTGGAA TCAGGATCCC AGGGTCTAGC CAGCCTGGGG TCCAGAACCC	60
AGAATCCAGC CTGTCTGAGC TGGACCTAGC AGCCCAGAGT CTAGCCAGCC TCGCTCCAAG	120
AGGGGCTCTG GTGGCCTAGG TAGACAGGCC TGGGTGGGGA TCAATGAGTT GGTGCTAGGG	180
CCAGGGCACC TCGACTCTGC TCCATACTG	209
(2) INFORMATION FOR SEQ ID NO:18:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 188 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li></ul>	

## (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:	
CACCTTCCTG AAACACCTGT GGCTTTGACT TTGTTATTGA TCCAGATTAT TCTCCTTGCA	60
TTGGGGAAAA TATCTTTCAT ATTTCACTGT AAGGGATGGT TTTGCGAGAG TAAGTTAATG	120
TCAAGACAAA CTGCCAATAC AAGAGCCCAA TGATATTAAT TACATGAGAA AAAGTAACTA	180
ATACATCC	188
(2) INFORMATION FOR SEQ ID NO:19:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs	

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

GAGAAAGAAA GAGATGTTTT ATTAGCATTT GTTACAGCAA CGGTGACGTG AAGGGTCGTC 60
CGTGCACAGC CACCCGAGCG GCAAGGCGTA GGCCAGAGCT GACACCCAGT ATTTACACGA 120
GTGCAGAACA GGATCACCCC GAACCTCAAA CAGAAGACTG AAAGTCACTT TACAAAAAGG 180
TAAATAAAAA 190

# (2) INFORMATION FOR SEQ ID NO:20:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 200 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:	
GCTACGGTCG ACATCACCAT CTTTATCCCT TCCAGCCCTT TGCTGGGTCG CGGGCCTTGG	60
GAAGATGCCA AAGAGCCGAG CAGTGGTGGT GGCCAGCGGG CAGAGTGTCC CTGCTTGGGC	120
CAGGAAAGCT TTACCTTCTC TGAGCGCCTC TGCCTGAGAG ATCGATGGTC TGTGGCTCTA	180
GGAGACCACG TCTTGGAGTG	200
(2) INFORMATION FOR SEQ ID NO:21:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS: <ul> <li>(A) LENGTH: 165 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:	
CCTTCTTTAT TGAATGACTT TCAAGAGGTA ATTACAGTTG AAGGTGACAA GTTAGAAAGG	60
AGAGGTGCCA CTGAAGGCAT AAGGCTGCTT GTAGACCCGG CTCTAGACAA GTGGCAGGAG	120
AAGAAAGAGG GTTAAAAAAG GCATGAGCGT GCAGCCCACG GGGCA	165
(2) INFORMATION FOR SEQ ID NO:22:	,
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 212 base pairs	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

(B) TYPE: nucleic acid (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

GGCAGCACTC CTATTAAAAC TGGAACCTAC TGAGGTTTCC TCGTGTAATT AGGGAACAGA	60
GAAACACGTT CCACGAGGGA GCCTCCAGGT CTAATTACCT GCAACCTCGC TGTACCTTGC	120
TGGCGAGGAG GGAGCCACCA ATAGCAATTA CTAACGAATG GCTGAATTTC CTTATAAGAC	180
CTAGGGAACC TGATGGGAAA CTGAATTGCT AA	212
(2) INFORMATION FOR SEQ ID NO:23:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 229 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:	
TTTTTTTTT TTTAATTTTT TTTAACGTTT ATTTATTTTT GAGACAGAGA GAGACAGAGC	60
ATGAACGGG GAGGGCAGA GAGAGAGGGA GACACAGAAT CGGAAGCATG CTCCAGGCTC	120
TGAGCCCATC AGCCCAGAGC CCGACGCGGG CTCGAACTCA CGGACTGTGA GATCGTGACC	180
TGAGCCGAAG TCAGACGCCC AACCAACTGA GCCACCCAGG CGCACCATC	229
(2) INFORMATION FOR SEQ ID NO:24:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 226 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:	
CCAGGTGACA GGGAGCCTGC AGGGAGGGTC TGGGTGTTCC CAGGAGCCAG GGGAAGTGGG	60
AATGGTGCAG GCAGTATTGG AAGGAAGGCC AGTCAGTGGG ACTGGCAGCT CAGACAGGCA	120

ATATGGGGAA GCATTGGAGC TTGCAGTCTC CACTCTGGGG TTAGGGGGTTT GCACACTCAG	180
CAATAAATAA CTGTGTCACA CCAAATCCTA AATATATCAC TACAAA	226
(2) INFORMATION FOR SEQ ID NO:25:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 165 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:	
GTGTTAAGTG GTCTTTATTG GGGTGTCACA TTAGGTTATC TTCTTCATTA TCAGTTCTTC	60
AGTTAATTGT ACAAGTATGA TAAGTTATTT TATATCTGAC GTGGGAATTT AAATGTAAAA	120
TAAATACAAA ATACATCTGT GGTTTAATGA ACACTCAATG AAGAC	165
(2) INFORMATION FOR SEQ ID NO:26:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 214 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
<b>4</b>	
(xi) SEQUENCE DESCRIPTTON: SEQ ID NO:26:	
ACAACAACTG TTGCAGGTGC TTTTGTGTGG AGTGTGTGGA TCTGTTGGTG GGGCCGGGGG	60
GCCCAGGACT CAAGGAGGAC CCCTGGAACT GCTACATGTG CGGGCACAAG GGCACCTACG	120
GGCTGCTGCG GCGGCGGAC GACTGGCCCT CGCGGCTGCA GATGTTCTTT GCCAATAACC	180
ACGACCAGGA GTTTGACCCT CCGAAGTTTA CCCA	214

(2) INFORMATION FOR SEQ ID NO:27:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 201 base pairs(B) TYPE: nucleic acid

<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 162 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:	
	60
ACACAGAACA AGAAATTTTA TTATCTCGAA TGCTGGTGCA TAAGCAATAA CAAGCTCATC	60
AATTAGAGGA GGAGACAGAG GGAAACTTCA GATACTGATG AGGATTTCTG GGCAGGTTTA	120
AAACCTTTAA AGATTGAGGC CATAATTGTT CAGTCTTTTT TT	162
(2) INFORMATION FOR SEQ ID NO:28:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 187 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:	
CCTTGCCAAG GCCGAGGCTC CACAGGAATC AGAGTTGGGA CGACNNNNGA AGGAAGCGTT	60
TGGCTTCACA TTCTAGAGAA AGAAGACCCT ACTGGGCTGC AGACCCCTCC AGGGCTGTAG	120
GAAAGCTGCT GGACCTCTTC TGCTTCTCCC CAACCACTCT GCCACTCTGC CAGTTACCAG	180
TCACCAG	187
(2) INFORMATION FOR SEQ ID NO:29:	

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29	):		
TTCAGAATAC TGTTTTTTTT TTTTTTTAA TTTGTTTTGC	TTTGTTTTG	ТТТТААТТТА	60
AAGAAAGGTA TTTTGCTTGC AGGAAAAATA CTCCAGATTC	CATTTTAATGA	GAATCTTTGA	120
AATGTATTTA TCTTTAGGGC ATTTGGGGCA ACTTTAATGG	CTGTTGGCCT	CCGGCCTTCC	180
TGGAAATAAA AGGTCCAACG G			201
(2) INFORMATION FOR SEQ ID NO:30:			
<ul> <li>(i) SEQUENCE CHARACTERISTICS:         <ul> <li>(A) LENGTH: 221 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> </ul>			-
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30	):		
CCTGCCCCAC GCCATCCTGC GTCTGGACCT GGCTGGCCGC	GACCTGACGG	ACTACCTCAT	60
GAAGATCCTC ACAGAGCGCG GCTACAGCTT CACCACCACC	GCCGAGCGGA	AATTGTGCGT	120
GACATCAAGG AGAAGCTCTG CTACGTGGCC TTGGACTTCC	AGCAGGAGAT	GGCCACCGCC	180
GCGTCCTCGT CCTCCTGGAG AAGAGCTACG AGCTGCCCGA	A C		221
(2) INFORMATION FOR SEQ ID NO:31:			
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 182 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>			

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3	1:		
ATTGTGATAG AAGACCACGG TGGGTTCAAN CANGTTGAA	G NAGTTCCGCN	TTTCCCCTCC	60
GGGGGAAAGG TTGTCGATGT CTNTTGGTNN TAAGTANTC	A CCCATNCATT	GTTGACAAGG	120
NTCANTCCCG AAGGGTCATT CTTGAGTAGT AGACCAATA	т титааааата	ATTTNAATCC	180
тт			182
(2) INFORMATION FOR SEQ ID NO:32:			
<ul> <li>(A) LENGTH: 210 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3	2:		
AATTGAGAAA GACATAATGG TTATGGCATT GGCTTGAAA		GGGTTCGATT	60
CCTTCCTTTC TTATTTTAAT AGTACGTAAG TTGGCTCTT			120
GACATCCATG CAATCATTCA AGATTAGTTG TGGTTAATT	C TACTATGGCC	ACTTCTCGCT	180
TGGATGCGAA AGCTTCTCAC ACTATGAAAA			210
(2) INFORMATION FOR SEQ ID NO:33:			
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 186 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>			

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:	
ACGCTCGTTT TCCAAAGAGA AGAGCGTTGT TTAGAGTAGC GAAATTCGAA GGCTGCTTAG	60
GCGCATTGTA AAGCTGTTGG GGAAATAACT CCACAAGTTT CGTGAGTGGA AATGTAGTGC	120
TCGAAACACA TTCTGCTTTA AAAGGTTGTA ACAAATACAA ACAAATTTAA AAAAAGCTCT	180
CGAAAA	186
(2) INFORMATION FOR SEQ ID NO:34:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 173 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:	
CTGGAGCGCA AGTACTCCGT GTGGATCGGT GGCTCCATCC CGGGCTTGGT GTCCCACCTT	60
CCACAAGTGT TGATCACACA AGCCGGAGTA CGCGCGCGGT TCGGCCCCCT TCATAGGCCA	120
CCGCAAAAAC TTTTAGGCGG GCTCTTACNT TAGAGGCGGT ACACACCTTC TTG	173
(2) INFORMATION FOR SEQ ID NO:35:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 197 base pairs  (B) FYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:	
TGGGCATCAA ATGAAAGAGA TACTTGCAAA GGCTCTTGAG GGGCAGGGAA AGGAAAGGAG	60

GACTGTCTGC TTTGGACCCT AAACTGGACA GGGACTAGGT ATTTTTGATG TTCATAAGTT	120
GTCCTGCTCT AAGTTCATTT GAGTAGCAGA CCTGACAAGC ATTTGAGGTC AAAACCCTAC	180
CATGTGTAAA AAAAAA	197
(2) INFORMATION FOR SEQ ID NO:36:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 146 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:	
GTCTTGATAC AAAGCTTCTG TGCTAATCCA GACTATTTAG GCAGGGGCAA TAGGGTGTAA	60
AATGTATCTG CTCTCTTCAA ACGCGGCTAA NGNTCTAGTC CATGTCCCNC CNNGCAACCN	120
NCAANATCCC ACNAGGGGGN AGNTCG	146
(2) INFORMATION FOR SEQ ID NO:37:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 156 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:	
CCCAGGTGAA CAGGAACAGG TTTTCTCATA AAAAACAACA AAAAATCCTT GCCATTCATT	60
TTCTTACTTG NATGTGGAAA AATAGATCCG CCTTTATTGN TGAATAGCCT TAAAACTTTT	120
GGAGAATATT CCTTAGNAAA TTAGGGGGGG NGGGGC	156
(2) INFORMATION FOR SEQ ID NO:38:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 173 base pairs

<ul><li>(A) LENGTH: 216 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:	
CATCTAGATA NTCTTGGNGA TTGGGGCCTC TAGNTGATTG CTCGAGCGGC CGCCAGTGTG	60
TTTTAAAGAC TGGCTCAGGG CCTGTGCGAG GTGCTGCTGG TGGTGACCAA GGAGGTGGAG	120
GAAAAGGGCT GCTGGNCTGC GGNACAGTAC TGACCCCGCG GAGGTAGTAG CAACCAGGTC	180
CACCGTACCC CTGCGAGTCC CCCGCTGCCA ATCCCC	216
(2) INFORMATION FOR SEQ ID NO:39:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 224 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:	
CCACCAAGAA GCTGGACCTG TGGATGCTGC CTGAGACACT CATTATCCAC CTGAAGCGCT	60
TCTCTTACAC CAAGTTCTCC CGCGAGAAGC TGGATACCCT TGTGGAGTTT CCCATCCGGG	120
ACCTGGAACT TCTCCGAGTT TGGCATCAAG TCCGTAGGAA CGAGTCGGCT CCGGAGCTGT	180
ACAAATACGC ATCTCATCGN GGGNTNCCAT CNCATTNATG GGGG	224
(2) INFORMATION FOR SEQ ID NO:40:	

(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:	
GGCGAATTGG GCCCTCTAGA TGCATGCTCG AGCGGGCGCC AGTGTGCTCT AAAGCCAAAA	60
TATATTTGAG CCAAATGTTC CGAGGATGAG TCAGGCTGTC TTCGGGGGCA GNAAAGGCTT	120
CACACGGGAC AAGTGGATGG NTTGGAGGAA TGNATGNTCC GCAACCATGG GCT	173
(2) INFORMATION FOR SEQ ID NO:41:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 213 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:	
CTGACTGGCC CAGAATTTTT GAATACTGGA GGCAGTCTCA TTGGCCTCCC TCATTAGACT	60
CCAGGATTCG GTCCAGCCCG AGACCACTGT GGGCTCCTAC CAGTCCAAAA GTCTAGGACC	120
GCTTGCAGAC CCAGGAAAGG AATTTTCTAG TGTTCTACAA AGGCCAATAG AGAGGGTGGG	180
AGTGGGTGGG GTGAGGACCG GTGGCGAGAG GGG	213
(2) INFORMATION FOR SEQ ID NO:42:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 195 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:	
GCCAGATTTA CATAAGAACA TGCTTAACAG ACGATCTTTT AGCTGACGTC TTAC	CCAGNAA 60
TCGCCCAAGT CCGCACGGTA AGTAAAGAGG AGGCCCGCCA GGTCAGAGTT TGCT	TAGCAA 120
TAGGGTCAGG TCACTAAAAC TGTAAATCCA TTGCGAGAGG GGGACGCCTC CGCT	CAAGCT 180
TGGCTGGGCT TCGGC	195
(2) INFORMATION FOR SEQ ID NO:43:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 303 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:

GTCAAAGAGA CCAAATCCCA TATCCTCATC TGATTCCTCC GACTCTTCCT TTGCTTCAAC 60
CTTGGCTGGG GCTGCAGCAG CAGCAGGTGC AGCAGTGGTG GCAGCGGCCA CGGGGGCAGC 120
AGCCACAAAT GCAGATGGGA TCAGCCAAGA AGGCCTTGGA CCTTTTCAGG CAAGTGGGA 180
AGGTATAATC AGGTCTCCAC AGGACAAAGG CCAGGACCCG CTTATTTTCC ATTGGATGGA 240
TAGGAATGGG GGGGACTGNA TGCAAACAGG NCGGGGTTNA CCCTTTCTTG NAGGACCATT 300
TCA 303

## (2) INFORMATION FOR SEQ ID NO:44:

# (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 217 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:	
GCGCAGGCAC AGCTGGTGAG GGGCGAGGCC GCAGACGCCA AGGTGGCCAC CATGGTCCGG	60
AGTGCCTGCA GGTAGTGGGC TTCGTCACGA GCTTCGTGGG TTGGATCGGC ATCATCGTCA	120
CCACGTCCAC CAACGACTGG GTGGTGACCT GCGGCTACAC CATCCCCACC TGCCGCAAGC	180
TGGACGAACT GGGCTCCAAG GGGCTGTGGG CAGACTC	217
(2) INFORMATION FOR SEQ ID NO:45:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 224 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:	,
CAAACCCATG CATACCACAT AGTCAACCCT AGCCCATGGC CACTTACAGG AGCCCTTTCA	60
GCCCTCTTAA TAACCTCAGG CCTGGCTATA TGATTCCACT ACAACTCAAC ACTGCTGTTA	120
ACCCTTGGAA TAACTACCAA CCTACTAACT ATATATCAAT GATGACGAGA CATTATCCGA	180
GAAAGCACAT TCCAAGGCCA TCATACACCT ATCGTTCAAA AAGG	224
(2) INFORMATION FOR SEQ ID NO:46:	
(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 243 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:	
GCGCCCGCCG CGTCGCGCCG CCTCACCGCC GTACCACCCG CCGCCTCCTC TGCAACCTCA	60
GCCCACCGGG GCACCCGGCC CAGGTCACTG GCGGCCCAGG CGCAGCTCCT GGAGGAGAAT	120
GACCAGCTCA TCCGCTGTAT CGTGGAGTAT CAGAACAAAG GCCGGGCGAA TGAGTGCGTC	180
CAGTACCAGC ATGTGTTACA CAGAAATCTC ATTTATTTGG CTACCATCGC AGATGCCAAC	240
ccc	243
(2) INFORMATION FOR SEQ ID NO:47:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS: <ul> <li>(A) LENGTH: 215 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:	
AGACCAGCCG GTGACAACCA CTAATCAAGT TCCATAACTA TATAGCGCCG CAATTCCCAT	60
GGCCTCCTCA CTAAAGAACC CTGAGTCACC TGTATCATAA ATCACCCAAT CACCTGCACC	120
GTTAAACTTA AATACGACTT CTACCTCATC TTCCTTTAAA ATATAACAAG CAGTTAATAA	180
TTCTGCTAAC ACCCCCGTAA TAAACATTGC TAGTA	215

(2) INFORMATION FOR SEQ ID NO:48:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(	(xi) SI	EQUENCE DESC	CRIPTION: SI	EQ ID NO:48	:		
TGAGO	STTGAT	TATTGTGGTG	GTATTGTTCA	CTGTGTAGAA	ATAGTAGGAG	TAGATTTAAA	60
TAGAT	TTGTTC	AGTTTTTAAT	ATTAGCCATA	GAACTGGTTA	GTATCTCAGT	AGTTTCATGA	120
AAGCI	TTTTCC	TGTATTCTAA	TCTATTTTGA	GAAATTTTCG	TCCCTTTTTT	TTAATTGTGT	180
CTTAC	CAGTTC	AAGTTTGTAG	ATTTTAATAA	GCAACAATTT	TTAAAGATGC	GGTAATCTTC	240
CAACI	TAATAT	TTATCCATCT	TTCATGGCCC	CACAACTGCA	TCTTTAAT		288

## (2) INFORMATION FOR SEQ ID NO:49:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 289 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:

CTAACTGCAT	TCTCTCCTCG	TTCATCCTTT	GGGGCTGATT	GATGAGCCCC	TTATTTCTTA	60
ТСТСТААААА	TCAACAGCAA	GGTCTACTTC	ACATGGCCAC	TCCAGTCCTT	TGAGCTATAA	120
TCAGGATTAT	ATAACTTACC	СТСАААТСАА	AAGTTAAGAA	AAAGGAAGCC	CATAAGCTAA	180
GGCACTGAAT	CTTTTCCTGA	CAATTTCTAG	AGGTAGAATT	TCATCATGCT	GCAGAGAGAG	240
AGAGAGAGAG	AGAGAGAGAG	AAGGAGGGGA	GGGAAGAGAA	ATGAAAGAG		289

# (2) INFORMATION FOR SEQ ID NO:50:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 287 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) S	SEQUENCE DES	CRIPTION: SI	EQ ID NO:50	:		
ATAATGGTT	A TGGCATTGGC	TTGAAACCAG	TTAAAGAGGG	TTCGATTCCT	TCCTTTCTTA	60
TTTTAATAG	T ACGTAAGTTG	GCTCTTCAAA	TGTGTGGTAC	GGAGGAGGAC	ATCCATGCAA	120
TCATTCAAGA	A TTAGTTGTGG	TTAATTCTAC	TATGGCCACT	TCTCGCTTGG	ATGCGAAAGC	180
TTCTCACACT	T ATGAAAACTA	TTAACATGAC	TGCTGTTAAT	GAGATGAAAG	AGCCCATTGA	240
GGAAATCGT	A TTTCAAGTTG	TATATGCATC	TGGATAGTCA	GAATAAC		287

# (2) INFORMATION FOR SEQ ID NO:51:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 276 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:

TGGTGACACA	CGTCTTTCAG	TCACCAGTGG	AGATCACCAG	GAGCATCAGC	AGGAAGAGCC	60
AGTGGGCCCA	CAAGCTTAGC	AAGTTGATCA	GGATAGGGTT	ATTTGGTGGA	TAGACCATGA	120
GTGTCAGGGA	CCTCCCACTG	GACACCACCC	CAGAGGCTCA	GGATGCTTTT	CGAGGGAGGA	180
AAGGAGAAAG	ACCTCTACTG	AGGGAACAGC	TGGCCGTGTG	TGGTGGGCTG	AGGTGACGTA	240
CAGGGGCAGA	GCTTTCGAGG	GATTTTCAGA	TGATCC			276

## (2) INFORMATION FOR SEQ 10 NO:52:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 293 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SI	EQUENCE DESC	CRIPTION: SI	EQ ID NO:52	•		
TAAATAGAAA	CGTATAGAAT	AGTCAAACTA	CGTCTACGAA	GTGTCAATAT	CAGGCGGCGG	60
CTTCAAATCC	GAAGTGGTGA	TTTGATGTAA	AGTGATATTT	TAGTTGGCGT	AAGAAGCATA	120
CAATTAGGAA	AGTAGAGCCA	ATAATTACAT	GTAGCCCATG	GAATCCTGTG	GCCATGAAGA	180
AGGTAGATCC	GTATACTCCG	TCCGAGATCG	TGAATGATGT	TTCATAGTAT	TCTGGAGGCT	240
TGAAGGAGTG	TAAAGTAGAC	TCCTAAAGAG	ATTGTAATAA	ATAGTGCTTG	AAG	293
(2) INFORMA	ATION FOR SI	EQ ID NO:53	<b>:</b>			

- (A) LENGTH: 239 base pairs (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:

GTTTTTGTTT	TTAAAAATGA	GTTCTTTTAA	AACCATGTCA	TACATTCCCC	ATACTGATAT	60
CGCATGACCC	NTTANAATAA	AGGCAGGGGG	NTTTACTAAT	GGGGGGCGG	GCCANACCCN	120
CCATCGTTTC	AGCCAGACAG	TTCAACCCGG	GGNNCCTTGT	TCCTGCGGAC	CTCCGGGGNA	180
NGCCTTTCCT	TTTCCAAAAA	GGGGGCCGNT	CGGAGNATGN	ATNTNGAGGG	CCCAATTAG	239

# (2) INFORMATION FOR SEQ ID NO:54:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 255 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:	
GCGCTCTGAC CAGGCATCAG TTTTCCTGGT GCTCTCTGGG CTAGCCTGGT GATGTAGGGC	60
CAGGCAGACA GGCAGGCAGG GGCTGAACAG GGTTTCTCTG CTCCAGGAAG ACCAAACACA	120
GAGGACCTTA CAGGCAGGAA CCCCACAGAC TGTCCCAACC CACACACTCC ACCACCTGTG	180
CCCTGTCCCA TGTCTGAGCC AAGGCCCTGA GGTAGAAAGT CACCTGATCC TGTATCTCCA	240
TAGGGGCCTG ACTTT	255
(2) INFORMATION FOR SEQ ID NO:55:	
<ul><li>(A) LENGTH: 230 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:	
CCCNAGNGCA CACNGGNGGC CNTAANNAGN GGNTCCNAGC NCGGNACCNA GNTTGAGGCA	60
TAGCTTNAGN ATTCNATAGT GNANCACAAA TAGCNTGGGG NAATCANGGN CAAAGCCNTT	120
TCCCGTGNGA AATTGTNATC CNNTCANAAT TCCNCACAAN ATACGGGCCN GAAGCATAAA	180
CNICTED A A COOL COCCOCOCOC A A NICNICOCNIC CNIA A CTICA CA TITUTA A TRACCO	230

(2) INFORMATION FOR SEQ ID NO:56:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 257 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56	:			
GGGAAATGTA GTTTGGATGC AAAGCTGATT AAATTGGATC	AAGAAAAATT	GGAATTAAAT	60	
ACATACAATA ATGCATGCAT TTATGGTTTC GATTTTTATA	TATCCTTAGC	TAGTTGGAAA	120	
TGATGATTCC CACAACAAGC ATAACTCAGC TTGTTTCTGC	TTACTGAGTA	CTTTCTCCTA	180	
TGGTATATGT TGATAACATT TCTTCCATTA TGTATGTTGC	ATACGAGAGT	TACAGTTACT	240	
GTGGGAATCA TAATTTT			257	
(2) INFORMATION FOR SEQ ID NO:57:				
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 280 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>				

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:

GTCACCATTA AATGTCTGAA TTTTAAACAG ATTCTTGGAC TGGTGGCTCA TATCCATCAG 60
CTCGCTCAAC TTTAGCACCG GTCTCATCCC CAGTAGCTTT TCCAGAACTG CTACCTTCAC 120
CATGAAGCTC CATGAGCTTT CCCAATTCAA ACTTGGGCTT CTTCAGCATT TTTACTTTTC 180
TAACGAAGTC ATCATGAAGT GGATAAATAG ACTGACAAGC CTTCTCTATG TCTTTCCGA 240
TCTGTCTGGA ATCAATTTAT TGACAACTTC TTTCAAGTCA 280

## (2) INFORMATION FOR SEQ ID NO:58:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 281 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:58	3:	
TCATAGCATT TCTTCTGCTT CTCCTGGATT ATGTGCTACA	AATGTGCTTT GGCTTTAGAA	60
AGGGATGGAT GAGAAGACAG AGCTGAGATC AACCTGGGTA	GAAGCAGAAA GTTAAACCCT	120
TTAAAAGTGC TGAACACAGA TTCGAATCCA AATGGTTCAA	GCAGCCATGA AATCGCTCTT	180
CATGAAGTGG GCTTAATTCT CTAGTTTAAG TTCTTTTGAT	GGAATGAATT AATTAATGTG	240
TCAGGTGGCT TATTTGTGGA TGCATGATTG ATGATGTCAT	T	281
(2) INFORMATION FOR SEQ ID NO:59:		

- (A) LENGTH: 283 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:

CGGACCCGGA CAGAAAGCAA ATCCTGGAGC GCACCCAGCG TGCGGTGGGG CTGGCCGCAG 60

AGCCCCTGGA GAGAGCCGTG CGGGNCGGCC TCCCGGCAGA GGAGGCCGCC CGCTGCGCAG 120

AGGTGTTGTT GGAAGAAGCG AAAGATTTGC TCTCCGACTG GTTGGACTCC ACCCTGGGCA 180

GCGAAGTTAC GGACAATTCT ATTTTCTCCA AACTGCCCAA GTTCTGGGAA GAAGAATTCC 240

ACAGAGACAT GGAAACCCTG AACGTTCTCC CTCCGGACGT CCT 283

### (2) INFORMATION FOR SEQ ID NO:60:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 320 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SI	EQUENCE DESC	CRIPTION: SI	EQ ID NO:60	•		
CGAATCTGTT	GTAGCAGTTT	CAAATGATTG	TGTGGATATT	GGATGTTTAA	CCTTTACCAT	60
TTGCTTTGTA	TCGACACATT	TTTCATTTTA	AGTGTTAACT	CATGTACTGT	TTACTTTAGG	120
AATAATGCAA	ATCCAACCTT	CATCCAGTGA	TGAGAATAGC	AGTATGATAG	GAATTTGCTC	180
AATGTGCTTT	AAATGAGTAA	TTGCTTTATC	TTTTTTAGTA	TCTGATAGAC	TTTGCATGAC	240

300

320

ACGGTACACT CCTAATTATG CATTCTTTAG TTTCCAAATC TTAACCTAAG ACATTCTATA

## (2) INFORMATION FOR SEQ ID NO:61:

TTAACTGATG GGTAGCTGAG

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 303 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:

GGTTTTGCAG	GGGCAAGTGG	GGCTGGGCCC	CGCTGGGTGA	GAACCCCGCC	GCACACTGCA	60
GTGGGTGCCT	GGACCCCGCA	GCAGCGCTGA	GCAGACGGTG	GACTCTGGGC	TGTGGCCTTT	120
CTTGGGCCCA	CTGGGGCCGG	CTCTTGTATA	TAGCTGGGGC	TCATGGGCAT	GACCCCTTTT	180
TTAAAACCTT	GGGTCTTAGG	ACACCTGGGT	TTACCCTCAA	CTAAGGGAGG	GTGGGAAAGG	240
GATTTACTTG	GGGTCTCAAT	AATTTACGAT	ATCCCTTTAA	GGTTGACCAT	TAAAACTGTC	300
CCA						303

## (2) INFORMATION FOR SEQ ID NO:62:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 276 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:	
CCTCTTAATA ACCTCAGGCC TGGCTATATG ATTCCACTAC AACTCAACAC TGCTGTTAAC	60
CCTTGGAATA ACTACCAACC TACTAACTAT ATATCAATGA TGACGAGACA TTATCCGAGA	120
AAGCACATTC CAAGGCCATC ATACACCTAT CGTTCAAAAA GGCCTTCGAT ACGGAATAAT	180
CCTCTTTATC ATCTCAGAGG TATTCTTTTT CGCAGGCTTT CTTCTGGGCC TTTGTTACCA	240
CTCAAGCCTA GCCCCAACCC CCCGTAGCTT AGGGGG	276
(2) INFORMATION FOR SEQ ID NO:63:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 301 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:	
CCAGTACTTT GCTTTTGTAG AAATAAATGT GCATTTCTTT CATTAGTTTT GGGATGTCCT	60
CGTTGACACT TGTATAATAA ATACCCTCTT GATATCATTT TCAGCTTTTA TCACTAGATA	120
CTGGACGTGA TTAGAATGTC GTTGAAGGTT TCTGCACTTT TACTTGCCTT AGATGATTAT	180
TTTGAGTTGT CAAAGTCAGA TCTTTGCAGT TTTCAGGGGG AACATAGTTC TCAAAGTCAT	240
TTACTCATCT TTTTCTAATC TCCCATGTTT ATTTTTAATC CTAAGGATTT CCCCCCTGTT	300
T	301
(2) INFORMATION FOR SEQ ID NO:64:	

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:

CTTTAGAGAC ATCTACATTA CTTATAAAGC TAATCAGGAA GTTAGCACAA CACACTCTTT 60

TTTAAATGGT TAAGATGGGC ACTTTTATTT CTTATATTTT CCTATCCAGA GAAAACATAG 120

AAAAATTTAG ACATTGGAGA AATAATAAGA ATGAAAAGTG GTGCCTGGGT GGCTCAGTTG 180

GTTAAGTAȚC TGACTTCAGC TCAGGTCATT ATCTCATAGT TTTGTTAAGT TCGAGGCCCC 240

ATTATNCAGG GCTNCCGNTG GCCTAACAGC TTNCNGAGGT CNTNGGGGNC CTGCTTTCCA 300

## (2) INFORMATION FOR SEQ ID NO:65:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:

CGGGGGAGGG GCAGAGAGA AGGGAGACAC AGAATCGGAA ACAGGCTCCA GGCTCCGAGC 60
CATCAGCCCA GAGCCCGACG CAGGGCTCGA ACTCACAGAC CGCAAGATCG TGACCTGGCT 120
CAAGTCGGAC GCTTAACCAA CTGCGNCACC CAGGCGCCCC GAAAGCTCTC AGTTTTACC 180
CATTGCGGTT GATATGAGCT TTGGGTTTTT CATATATGGC TTTTACGGAT GCTTAGGTAT 240
GTTCCTTGCT TATCCCGAAT TTCTTTGAGG GGTTTTTAAT TTAAGGAAAG GGGTGATTGG 300

TAATTTTTTG TCAAAATTGC CT	322
(2) INFORMATION FOR SEQ ID NO:66:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 283 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:	
CCTAGCCCAT GGCCACTTAC AGGAGCCCTT TCAGCCCTCT TAATAACCTC AGGCCTGGCT	60
ATATGATTCC ACTACAACTC AACACTGCTG TTAACCCTTG GAATAACTAC CAACCTACTA	120
ACTATATATC AATGATGACG GGACATTATC CGGGAAAGCA CATTCCAAGG CCATCATACA	180
CCTATCGTTC AAAAAGGCCT TCGGATACGG GGATTAATCC TCTTTTTCAT TCTCAGGAAG	240
AATTCTTTTT TGGCAGGGT TTTTTTTCTG GGGGCCTTTT TTT	283
(2) INFORMATION FOR SEQ ID NO:67:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 312 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:	
ACGAAGTGTC AATATCAGGC GGCGGCTTCA AATCCGAAGT GGTGATTTGA TGTAAAGTGA	60
TATTTTAGTT GGCGTAAGAA GCATACAATT AGGAAAGTAG AGCCACTAAT TACATGTAGC	120
CCATGGAATC CTGTGGCCAT GAAGAAGGTA GATCCCTATA CTCCGTCCGC GATCGTGAAT	180
GATGTTTCAT AGTATTCGGA GGCTTTAAGG AGTGTAAAGT AGACTCCTAA TGAGATTGTA	240

ATAAATAAGT GCTTGTAGCA TGTGTTTTCG GATTTCCCTC CATCAAACTT GTGGTGAGCT	300
CCAGGCGAT TG	312
(2) INFORMATION FOR SEQ ID NO:68:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 309 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:	
TTTTTTTTA CTGGGGTGGG GATGGGAAGC CCTCATGCCT TTATGGGGCA GCATTTTAAA	60
CCTTTGCCAA AATCGCCAGT GGGACCTACA CGTGCTTCCG CGCCATCCTG TTGAAGACAA	120
ACACCTCTCA GCTGTTTTAA TCTTTAATCT TTTCTGTGTG TGTTTGTGTG TGTGTGTGTG	180
TGTGTGTGTG TGTGTGTGAC CTGAGTTTTT GATGAGATAC TTGATTTGCA TCAAAATCCC	240
GTCACTTTCC AGCTTTTGTT TGGTCATCAA AAATCATTAA AAGGAGCTTG TAAAATTTTA	300
ACCAGGGTT	309
(2) INFORMATION FOR SEQ ID NO:69:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 271 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:

TGGCTGTCAT CTGGAGGCTT CTGCCTCAGC TCCTGAAGGC TGCTCTCATT CCTTCTCGCG

60

TGCTCCCGTC	CATCTTCAAA	TTCTCAATGG	CCCATCTTCT	CACGCCTCCC	ATCCCTCTGC	120
СТТСТТССТС	TGTTTTAAGG	TTCATGTGAT	TAGATCAAGC	CCACTGATCA	AGTCTCCCTA	180
TTTTAAGGTC	AGTTCTGCCA	TAGAACATAA	CATAATCACA	GGAGTGACTG	CACAGGCACG	240
GGTTCCTGGG	ATTTGGGCAT	GGAGTTGGGG	G			271
(2) INFORM	ATION FOR SI	EQ ID NO:70:	:			
(i) SEQUENCE CHARACTERISTICS:						

#### (xi) SEQUENCE DESCRIPTION: SEO ID NO:70:

(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

ACGCTAAGGA CACCTTTTT GTTTCTGCAC CTGATGTTAT AGATGGCAAC ACCAAGTTCT 60

AGAGCAATTG AGAGACTTGT CCAAGGTCAC AGGATGGCTT CACTTCAGCC AACTATATAG 120

TTGCAGTGAC AGTATGTGTG CTCTCTGAGG GGTTACTGAA AACCCCTGTC AAATATTTCC 180

TGTGGACACT CAGCCTTTAA ACTCCCAAGC CTCATGAAGA ACTTATTGGG GGGGGGGGC 240

GCCTAAATAA TTCAGTCGGT TGAGCGTCTG ACTTCGGCTC AGGTCATGAT CTCACAGCTC 300

GTGAGTTCGA G 311

#### (2) INFORMATION FOR SEQ ID NO:71:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 298 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:

TGCCTAGAAT	CATTGTTCTG	TGTGGAGGTG	TTTTGTTTTG	ATAGAAACCG	GCCAGTCTTG	60
AACCAGAACG	AATGTTTCCC	TTGTCTAATG	TTCTCACAGA	GAAATGGACA	AGCGTTTTAC	120
AGGTATAAAA	GGCACAAGGA	GGAACTTATT	TTTGGTCAGA	GCATTGGGGA	AGTAAATCAC	180
AAGGCAAAAT	AGATCTGTTT	GTTGTTTGTT	GCGGGAGGAA	GTATTAATAA	GCAAATCAAA	240
TGCCTTGTAT	GATCTCCAGT	GTTATAATTA	TAGATCCTAA	CTTTGCAAAT	ACATGTAG	298
(2) INFORMATION FOR SEQ ID NO:72:						

- (A) LENGTH: 255 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:

ACTGGACCAA AATTGGTGTT TGTTTTAACC TTGACTCTTC TTTTGATTAT TTCTAATGCT 60

ACAAGAATGC TGTAAAGTGT CTTCTACAAT GATGTAGCCC TGACAAGACA TGTTTGGCAG 120

TGTATAAAAA TTAGGTAGGA TTGTGCACTG ATTCGACCAT TGTGAAATCT TTTCTCAGTG 180

GTAAGTGCAT TCTCTAATAA AATTTATGNA GGTGAAACAA TCTTTGGNGC AATGGACCAC 240

TCATGCATCC ATCCC 255

#### (2) INFORMATION FOR SEQ ID NO:73:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 271 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:							
AACAGCCCCA C	CTATCAGCAC	CCAAAGCTGA	AATTCTTTCT	TAAACTATTC	CTTGCCAATA	60	
CCAGNAAAGC A	ACCCCATAA	CTTTCATAAT	TCATATATTG	CATATACCCA	TACTGTGGCT	120	
TGGCCAGTAT G	STCCTTATTT	CCCACAAAAA	AACCAAGTAA	NAAACCCCAA	GTACCACAAC	180	
CCAAAACACA C	CAATGTAAAA	TCACTCTATT	AACCACANAC	CCACCCCAGG	TTGGGTATTA	240	
TACACCCATG G	STNCATAAGG	ACATACTATG	T			271	
(2) INFORMAT	ION FOR SE	Q ID NO:74:					

- (A) LENGTH: 336 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:

CGCTGCATCT	TTTTCTATGC	TCTCCCTGCT	GGCGCTGATG	GGAGATACAG	ACAGCAAAAC	60
GGACAGCTCG	TNTCATGATC	GACTCGGACC	CTCTGCGNCT	GCATGAGGCA	CCACTATGTT	120
GNATTCTATC	AGCTCACCCG	TTGNTACAAG	TGTAGNCTCA	AAGGAAGAAT	AGTGGGAGTC	180
TTCTGTGAGA	CCTATCTGAA	TCCCCGNNTG	GCCCTGAGNT	TCCAGAGGGN	CCTGGTCGTC	240
CCATCGCCTA	GCAGGGTTCA	AGNAAAGGGG	CCCGCNCATG	GCAGTCCTTG	GNCAGNAGNA	300
ANGGANTTGG	NCCCAACCCC	NTTGGTTCCC	AACCCA			336

## (2) INFORMATION FOR SEQ ID NO:75:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 337 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(vi) C	EQUENCE DESC	בארבשתבטוי כי	EO TD NO.75				
(XI) S	EQUENCE DESC	CRIPTION: 51	EQ ID NO:/3				
CGGCCACTGG	TCATCAGATG	AGCATTTTGT	GTGTTTGAAG	CTAGTAGCTA	TAGAAAAGAT	60	
AGTTGTGCCC	TGATAAAGTA	GCTTTTTAAA	AAAAGTTTGG	GTTAGTTTCA	CATTCAAGGG	120	
GCTTATGAAG	AGATGCAAGT	CAGGATACAT	AGGCTTGATT	CTTGGCAGCT	TAATGAGTCT	180	
TCACGAGGCA	CTGAAGGTGG	AAGGGTGGAG	TCCAGTAACT	GCTCTGGAGC	AGTGACTTCC	240	
CAATTCTGAC	GATCTCAACA	TTGTTTCTGA	AGGACGTTGC	CATCTTGGAC	ACAGGAACGT	300	
GCTGTGGGGT	GCCTGGCAGT	GTCTGAGTAG	TAGACTT			337	
(2) INFORMATION FOR SEQ ID NO:76:							
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 252 base pairs							

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:

(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

CGCTGCATCT TTTTCTATGC TCTCCCTGCT GGCGCTGATG GGAGATACAG ACAGCAAAAC 60

GGACAGCTCG TTTCATGATC GACTCGGGAC CCTCTGTCGT CTGCATGNAG GGCACCACCT 120

ACTGTTGGAT TCTTATCAGN NCAACCCGCC CNGNTGCAAA GATGNTAGAC TCCANAAGAG 180

NAAGNAATNA GTTGGGGNAG GTCNTTTCCT GCTGNAGAAC CTAATTCNTT GCAATTCCCC 240

CCCCGCCCCC GG 252

## (2) INFORMATION FOR SEQ ID NO:77:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 266 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single

## (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:

ATTACAACAT	CTAGAAGGCT	TTCATCATAC	GATACAAAGC	TCAGTTACAA	ATGTGCATCC	60
TAGTATTTGG	AAAACTAATA	CCTCTCTTAA	TGTAACATGA	AAAAATTATT	TCTTATGTCC	120
TTTTTCAGGA	СТССТСТТТТ	ATTTTTTGGT	ATTTTATCTT	TTATGGCCAC	CTTGGCCTTC	180
TGGCCAATGT	GTTATGCAGT	GAAAATGCTT	GTGGGCAGAG	GATGCCCTAC	AGCGCAAAAA	240
TACCGCGCAC	ATGGGTTTCC	CAGGTA				266

## (2) INFORMATION FOR SEQ ID NO:78:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:78:

TTTTGTTTTA	TCCGTTTATT	AGTACATGGG	CGTCGGGAGG	ATGATTTACT	CATCATCTTG	60
TATTACCAGA	GGTAGAGCAT	AATGCCATCT	GCTAGGGATC	CAGTTCGACA	GCACCTCAAA	120
ACACTAGTCT	GCTCACTCAC	CCTATAGGGC	TTGNTCATTC	CACTTGGGAT	GGAAGACAAC	180
AGTGCCTTTA	ATGCAAATGG	GCCCCAGGCA	AGGAATTAAC	CATTGGCTTC	ATGGCTCATG	240
AAGGAATACA	GNCNNATTTA	ANGCGNGGCA	GGCAGGAAGC	CTTTGNGCTA		290

## (2) INFORMATION FOR SEQ ID NO:79:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

AGAAAGAAAG AAACT

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:							
CTAAAGTGGC TGAACAGTAT ACCCACCCCT AGCCGGCAAC CTGGCTCATG CAGGAGCATC	60						
CGTAGACCTA ACTATTTTT CACTACACCT GGCAGGTGTC CTCCTCAATC TTGGGTGCTA	120						
TTAATTTCAT TACTACTATT ATTAATATAA AACCTCCTGC CATGTCCCAA TATCAAACAC	180						
CTCTATTTGT CTGATCAGTC TTAATCACTG CTGTCTTACT ACTTCTATCA CTTCCAGTCT	240						
TAGCAGCGGG AATCACTATA TTATTAACAG ATCGAAACCT	280						
(2) INFORMATION FOR SEQ ID NO:80:							
<ul> <li>(i) SEQUENCE CHARACTERISTICS: <ul> <li>(A) LENGTH: 375 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> <li>(xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:</li> </ul>							
GCCGGGAGCC GGCCTTTGGG CCGNGGGCGG AGAGGCCCCC GGACGGTCGA GTGCTTCTCC	60						
TGACTGGTGC GAGAAGAACA TTTTCTATAT ACTTCCAGGT GCTTTTATAT TCCTTTCGAG	120						
AAGAAAATAA AATTATGAAC TCAGGATTTT GCAAGTATTC TGTGTTTCTC CTGGAGTAGG	180						
TAGTCCTTCT TCTTTTACCC AGCCACTTTC CCTATTCTTG AAATGTGGAT CTCTCTTCTC	240						
TACATGTTTT ACCTCCATGA TTTGGATTGG AAAAAGCTGC TTTTCTTTTG GTTCCACTTT	300						
TCAGATTCAA CATAGAGAG CTCCTAGGAT GCAGTCGTCT TTCTGAAGCG CTTCCAGGGA	360						

375

## (2) INFORMATION FOR SEQ ID NO:81:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:

AGGTCTTAAN CCCAACCCG TCCCACCCAC AGGGTNCCAG CGTGGTGACT ACAGGCGACC 60
CTCCCTATGT CGGGTCTAGA ACGCCCCAG CTGGAACGAA GGGAAGAAGC TAATTACAGT 120
GTCTTCCTTT GCACTGACCN NCCCCCCCC CGCCCCCCG CCACCAGTTC AGTCCAGGAG 180
GGGACTTGTT AGCCCGTAGC CCATCTTCCC CACTATCCTG GCGTGTTGGG CTCGTGAATG 240
CCTCCTAGCC AAATCACTAG AGTGCAGTGA CCCCAGCCTC CTTCCTGTGC CAAGATG 297

#### (2) INFORMATION FOR SEQ ID NO:82:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 361 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:82:

GCAACAAGGA ATGAGACCCC CAATGCCGCC TCATGGTCAG TACGGTGGTC ATCATCAAGG 60
CATGCCAGGT TACCTTCCTG GTGCTATGCC ACCGTATGGG CAGGGACCGC CAATGGTACC 120
CCCTTACCAA GGTGGGCCTC CTCGACCTCC GATGGGAATG AGACCTCCTG TAATGTCGCA 180
AGGTGGCCGT TACTGATCTT ACTTCATCCA ATCTAATAGG TTTTGAGATT AAACCTTTTC 240
TCAACTTGTG CTGGTTTATA TAGCCAAGCT TCCGTCAATA AGGCTTTATT GTTGACTTTA 300

ACAAACATTA TATTACCACA TACCAGGGAC TATTGGACAA TTATTTTACA AGGGGAAAAT	360
T	361
(2) INFORMATION FOR SEQ ID NO:83:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 380 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:	
CCTGGCTGCC TGTGCCTCAA CCCCACTCCC AGGGAGACCA AAAGCCTTCA TACATCTAAA	60
ATTGGGGGG GGGGGGGGA CAAAAAAGGG GGCCCACGAT GGCAGACCAT TCGAAATAAA	120
ACAAAAAGAC CAAGTTTTAA GGCGAGAGTT TAAAAAAAAT TTGGACTACA TAATTTACAC	180
CAAGGCAATG TTATCACCCT GCGCCTGTTT GGACTTGGGC GGGGACTGGC CCTTCTCCTC	240
AGGGGGAAAT GGGGTGGCTT TTGGGAAGGC AAGGGACTTC CTGTAACAAT GCATCTCAGG	300
GTATTTGGAA TGACTATTAA AAAAAAAAGG GCCAATGTTA CAGTCAAGGT CCTGGGCCCA	360
ACCTTGGAAC TTTTGGGGGT	380
(2) INFORMATION FOR SEQ ID NO:84:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 392 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:

CCCAAACATC	TACAAACACA	ACTAACACCA	GAAAATAAAA	CAAAACATTT	AGTCACCTTA	60
TAAAAGTATA	GGAGATAGAA	ATTTAACTTG	GCGCTATAGA	GAAAGTACCG	CAAGGGAAAG	120
ATGAAAGATA	AAATTAAAAG	CACCACACAG	CAAAGATTAC	CCCTTGTACC	TTTTGCATAA	180
TGAGTTAGCT	AGAACAACCT	AACAAAGAGA	ACTTCAGCTA	GGCCCCCGA	AACCAGACGA	240
GCTACCCATG	TACAATCTAT	TTCAGGGGTG	AAACTCCGTC	TATGTTGCAA	AATTAGTGAG	300
AAGGTTTTTG	GGTAGAGGTG	AAAAGCCTAT	CGGGCCTGGT	GGTAGCTGGT	TGCCCCGAAC	360
CGGATTCTTA	GTTTCACCTT	TTAAACTTTC	СТ			392

## (2) INFORMATION FOR SEQ ID NO:85:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:

## (2) INFORMATION FOR SEQ ID NO:86:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:

AAAGGGTGGG GCANTTGATG CTGGTTTCTT CCTCTGCGTT TTCCGTAATT CCTTCTTACT 60
AGGGCTTTAT AATTCTAATT TTTCTTGGTT AAGTAGTAAT ATAAAACACA ATCAGGAACA 120
CTCTTTCTTT CCAAGTAGGA TGCAATTAGT CCAAAGTTTT TTGGATGCTG GATAAACTTG 180
TCCTTAAAGA TCTCCTTCTC GTGGTCAGTC CAAACATTCA TAAACTGCCT ATCTTTATAA 240
ACTTTCATAG GATCTTCCAT GAGTCCATTC ATGTTGATGA ATTTGACTCG TCTCTGTTCT 300
GCATCAAACA TCATAGGTGG GATCACAGAG AGTTGCCGCA TTTGTTTCTC ATTATTTCTC 360
CTTCTCAGAG AGCCCATCAA TAATTTTCAG 390

## (2) INFORMATION FOR SEQ ID NO:87:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 504 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:

GTTTCCAGAA ATTCGAAAAC AAAGAGAACA ACAAGAAAGG TTTCAGCGAG TTGGGCAGAG 60
GGGAGCTGGT CTTTCAGCCA CGATTGCTAG GAGCGAGCAT GAGATTTCTG AAATTATTGA 120
TGGGCTCTCT GAGCAGGAGA ATAATGAGAA ACAAATGCGG CAACTCTCTG TGATCCCACC 180
TATGATGTTT GATGCAGAAC AGAGACGAGT CAAATTCATC AACATGAATG GACTCATGGA 240
AGATCCTATG GAAAGTTTAT AAAAGATAGG CAGTTTATGA ATGTTTGGGA CTGACCACGA 300
GAAGGAGATC TTTAAGGACA AGTTTATCCA GCATCCAAAA AACTTTGGGC TAATTGCATC 360

CTACTTGGGA	AAGAAAGGGT	GTTCCTGATT	GTGTTTTATA	TTACTACTTA	ACCCAGGAAA	420
ATGGGGATTA	TTAAAGGCCT	AGTAAGGAGG	GATTTACGGG	AAACCGCAGA	GGAAGGAACC	480
CGCAGGCAAT	TGCCCCCCT	TTGG				504

## (2) INFORMATION FOR SEQ ID NO:88:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 444 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:

CCTACCCGGT	TTTGGGATAA	TCTCACATAT	TGTTACCTAC	TATTCAGGTA	AAAAAGAACC	60
CTTTGGCTAC	ATGGGAATAG	TTTGAGCCAT	GATATCAATC	GGCTTCCTGG	GCTTTATCGT	120
ATGAGCCCAT	CACATGTTTA	CTGTAGGAAT	GGATGTAGAC	ACACGAGCAT	ACTTTACATC	180
AGCCACTATA	ATTATTGCCA	TTCCTACCGG	GGTGAAAGTA	TTTAGTTGAC	TGGCTACTCT	240
TCATGGAGGT	AATATTAAAT	GGTCCCCTGC	TATATTATGA	GCCTTAGGCT	TTTATTTTCC	300
CATTTACCGT	AGGAGGCCT	AACGGGGATT	GTACTAGCAA	ACTCTTCACT	AGACAATGTT	360
CTTCACGGCA	CATATTACGT	GGGGGCCAC	TGTCACTATG	GCTTGTCAAT	AGGGGCAGTA	420
TTCGTATCAT	AGGGGGGTTC	GTCC				444

# (2) INFORMATION FOR SEQ ID NO:89:

# (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 421 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:89:

GCAATCCTGG	CCTGGGGGCC	TGAGGCCCTT	CCCCTGCTCC	AGGCTGTCAT	CTCCTGCCTC	60
CTCTCCTCCG	GCCTCCTCAG	TTTTGCCAAC	TGCAATTCAT	TTGAGTTACT	GTTTATGCTA	120
AGCATGTACT	CCTGACTTGT	CACTGACTTT	CCTCTGGAGC	AGGTGGCTAG	AAAAAGAGGC	180
TATGGGTGGG	GGAAAAAAAT	GTTCCTGTTC	TCACTTGTAA	GGCTGGTTTT	TGGCTTTTCT	240
GCCATGGGAT	TCTCCCCTG	ACCTCTCCCC	TCAGCAATTC	CTGCAAAGGG	TTAAAAATTT	300
AACTGGTTTT	TNAACTACTG	ATGGACTTAA	ACAACACAAA	GGATGCTGGG	ATGCTAACTT	360
GGTTAACTAA	ACCATCAAGG	TTGTACCAAG	TTTTGGATTG	GTAACTGGTN	AAATACAAGT	420
A			•			421

## (2) INFORMATION FOR SEQ ID NO:90:

# (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 406 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:90:

CGTATGAGGC	AGTCCCCTGC	TCGCCCCATC	CCCCACTGTC	AGGTCTATGG	GTCCGTGGGC	60
CAGAATGGGG	TGGAATTGGG	TTGAGGGAGG	GACAGCCCTG	GCTGACAATG	ATATTGGTGT	120
AATCAACATT	AACCGAGCCG	GCTTCAGCTT	ACCTCAACCC	GGGCAGGACA	CCACCACCTT	180
GAGAAACCAC	AAGCTGGAGC	GACCCTCAGG	CCCTGCAGGC	CTTGCAAACA	GCCCTGGGTG	240
GACCCCACAC	CAGTCCCTGT	TAGCCAGCTA	GGCCCAGTCT	TCCTTCAGCA	CCACACTTTT	300
ATCCTGGGCA	GGTTTCTGTC	AGGTGGAAGC	TGGTAAAAGC	GGGTCCCAGC	CAAGGGCTTC	360
AGGTTCAGCG	CCAGCCAGTA	ACTTCAATTC	TTAACGGTGG	GCAGGA		406

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 363 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:

GCCACCTGAC	CCTCCTAACC	CATGGCTGTC	TGATGATACT	ACTTTCTGGG	AACTTGNAAG	60
CAAGCAAAGA	ACCAAGTCAG	CAGAGGGTAA	AACGATGGGG	TTTTGGCATG	GATGAAGCAT	120
TGAAAGACCC	AGTTGGGAGA	GAACAGTTTC	TTAAATTTCT	AGAGTCAGAA	TTCAGCTCAG	180
AAAATTTAAG	ATTCTGGCTA	GNCAGTGGAA	GNACCTGAAA	GNAAAAGGTC	TAATNAGGAG	240
AAAGTTCCCT	TTCCCGGAGA	TTCAGGGAAA	ATATGGGCAA	AGNAATTTTC	TTGGGCTCCC	300
TGGGAGGCTT	CCCCAGNTGC	CCAATCCAAA	CCTTGGGGTT	TTCCTNAAGG	AGGCTNATGG	360
ATT						363

## (2) INFORMATION FOR SEQ ID NO:92:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 193 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:

GAGAAAGACA	TAATGGTTAT	GGCATTGGCT	TGAAACCAGT	TAAAGAGGGT	TCGATTCCTT	60
CCTTTCTTAT	TTTAATAGTA	CGTAAGTTGG	CTCTTCAAAT	GTGTGGTACG	GAGGAGGACA	120
TCCATGCAAT	CATTCAAGAT	TAGTTGTGGT	TAATTCTACT	ATGGCCACTT	CTCGCTTGGA	180

TGGCAAAGCT TCT	193
(2) INFORMATION FOR SEQ ID NO:93:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 266 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:93:	
CCGCCAGTGT GCTCTAAAGT GTGGTACCCT GGTGGAGACC TGGCCAAAGT ACAGCGAGCT	60
GTGTGCATGC TGAGCAACAC CACAGCCATT GCTGAGGCCT GGGCTCGCCT GGACCACAAG	120
TTTGACCTGA TGTATGCCAA GCGTGCCTTT GTTCACTGGT ATGTGGGTGA GGGCATGGAG	180
GAAGGAGAGT TTTCTGAGGC CCGTGAGACA TGGCTGCCCG TGAGACATGG CTGCCCTTGA	240
GAAGGATTAT AGGAGGTTGG TGTGGA	266
(2) INFORMATION FOR SEQ ID NO:94:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 251 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:	
TCTTCTCCCA AAAACACTAA TCCATGTCCG TAACCCACTC AGCCTCCAGA CCCCAGAGGC	60
TCTCCCCCAC CCAGCTGCCC ACCTCTAAAG AGGATTCAAG GGGCTATAGT GTCACCCAAC	120
CTCATTTGCT GGACCAAATC TGGAGAACCC TTGAGCTAGG TGGCCCATGG GGTTGTCCCC	180

AGGTGGGGGA GCAGGGGAGA GAAAATGGTA GCCATTTTTA CATTGTTTTG TATAGTATTT 240

ATTGATTCAG G	251
(2) INFORMATION FOR SEQ ID NO:95:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 188 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:	
GTCAGACACA ACTTTCTGAA TCCTCTNAGG ANGGTGATCC AGTTCATGAA NATTCTCTGT	60
AAAATNANTN TGGNAAACTA NATNAGTGNN GATNCAGGTC TNGAGNNTCT CCTTCCAGTG	120
NCTAAAAAGT NCACAGANGN CAGGAACTNC CTATCTGCAT GCAGTCACCA GTTCTCATNC	180
TCTANGCA	188
(2) INFORMATION FOR SEQ ID NO:96:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 182 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:	
CCCAGCCTTC ATGAGCTGGT CATCAGGATA CTTTCTTATG GGNTNGANCA TGCCANTTGC	60
TTNTNCGNGT ANATGTAAGT TCATGNCAAC CNCATTTTTT TTCTAGCCTN NGGNCTNAAG	120
GTNANTCGTC TCNTTANGCA GCNGANNCAG TTGNAGTCTN TCAAANGNNC ACAAANACCT	180
AA	182

(2) INFORMATION FOR SEQ ID NO:97:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS: <ul> <li>(A) LENGTH: 214 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:	
GGGTTAAGTG ATAGGAGGAG AAGGGCTGAG TAGGTGGAGG GCTATTAGGG CATTTTCTCG	60
GTGTAAATGA TGGGTTGATA TTTTTAATGT GGTGTGTGT	120
TAAGTATGTA GAGGGAGTAT AGCCCTGTAA TGATGATATT AGTACCCATT AGGATAATGG	180
TTATGTTTGA TCATGAGAAG GAGGCTATTA CTAC	214
(2) INFORMATION FOR SEQ ID NO:98:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 248 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:	
ACAACTTTGG CCGTGGAGGA AACTTCAGTG GGCGAGGTGG CTTTGGCGGC AGTCGAGGTG	60
GTGGTGGATA TGGTGGCAGT GGGGATGGCT ATAACGGATT TGGTAACGAT GGAAGCAACT	120
TTGGAGGTGG TGGAAGCTAT AATGATTTTG GCAATTACAA CAATCAATCT TCAAATTTTG	180
GACCCATGAA AGGAGGAAAT TTTGGAGGCA GAAGCTCTGG CCCCTATGGT GGTGGAGGCC	240

AATACTTT

(2) INFORMATION FOR SEQ ID NO:99:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 136 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:	
GCGAAGGACC TCCTGCACAC GTCCCCGGAA GAGGAGAAGA GGAAGCACAA GAAGAAGCGC	60
CTGGTGCAGA GCCCCAACTC CTACTTCATG GACGTGAAGT GCCCGGGGTG CTACAAAATC	120
ACCACCGTGT TTCCCT	136
(2) INFORMATION FOR SEQ ID NO:100:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 203 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:100:	
ATCTGCCATT TTAGACTTAA AGGAAATATT CCACGTGTTA TTTACGATCC AGAAGTTTTT	60
GAGTAATTCT GGCTTTTAAA AACTAATGAA GTCCTTTTAG TGTAATGGTA ACAGTGCCAC	120
ATAGTGAATG CCACTGAAAA GGTCAACAGC TACATTTTGG TGTTGTGAGC ATTATACCGC	180
AAGACTTACA TAGTTCAGTA TAA	203
(2) INFORMATION FOR SEQ ID NO:101:	
(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 246 base pairs (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(vi) CEQUENCE DESCRIPTION, CEO ID NO. 101.	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:101:	
GGTCCTTGTA TCACTTTCAT TTGCATGACG TTCCTTGCAG GTGGTGGGAG CCTGGGCTTT	60
TGGGGAGCCA GAACCTTCTG GCCCCCAGAA TCACCCCCTC CTAGCCCCCT CTAGTCCAGT	120
TTGCCTCCCC TGCCCCCATT TTCCAAACCT CTTGTCCCCT CCCCTCCCCC CCCCCTCCCC	180
CCAGCTGGTG TGGAAGTGTT CTCGGAGTTC AGTGTGTATG AAGGACAATA GTTTGCACTG	240
GAGTTT	246
(2) INFORMATION FOR SEQ ID NO:102:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS: <ul> <li>(A) LENGTH: 224 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:102:	
GGATGATTGC CCAGAGCGTG ACAGCGGTCG CAGGGCTGGT GTCCTACCCC TTTGACACTG	60
TCCGCCGTAG ATGATGATGC AGTCTGGCCG GAAAGGGGCG GATATTATGT ACACTGGGAC	120
GGTGGACTGC TGGAGGAAGA TTGCAAAAGA TGAGGGAGCC AAGGCTTTCT TCAAAGGTGC	180
CTGGTCCAAT GTGTTGAGAG GCATGGGCGG AGCTTTCGTA TTGG	224
(2) INFORMATION FOR SEQ ID NO:103:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 270 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li></ul>	

## (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:103: ACGACTCACT ATCAGGGCGA ATTGGGCCCT CTAGATGCAT GCTCGAGCGG CCGCCAGTGT 60 GGGAAAAGGA GAGGCATGCC GCGGAGGTGC GCAGGAACAA GGAACTCCAG GTTGAACTGT 120 CTGGCTGAAA CGATGGAGGG TATGGCACGC CCCACCATTA GTAAATCCCC CTGCCTATAT 180 TATAATGGTT CATGCGATAT CAGTATGGGA AATGTATGAC ATGGTTTAAA AAGAACTCAT 240 TATAAAAAAC AAAAACAAAA AAACAGAATC 270

## (2) INFORMATION FOR SEQ ID NO:104:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 280 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:104:

AGCATGCTGA	TCCCCATTGC	CGTGGGCGGC	CTGCGGGGGC	TGGTCCTCAT	CGTCCTCATT	60
GCCTACCTCA	TCGGCAGGAA	GAGGAGCCAC	GCGGCTACCA	GACGATCTAG	CAGGGCTGCG	120
ACACGTCGGG	CCGGCTGCCA	CTTCCGGTCC	TCCGCTCGTC	CCCTGAGCTT	AGGTTGGCGT	180
GGAGGGCGGC	ACGTTTCTTG	CAAACTGATT	TTCAAATCTG	CTTTATCCGA	TGTGAAGTTC	240
ATCTTGCAAC	ATTTACTATG	CACAAGAGTA	TTGAAATGAC			280

## (2) INFORMATION FOR SEQ ID NO:105:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 529 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:

TTCATTATGA AAATATCAAT AAATATGTCA TTAGTTTACA TTCAACTCTT TGTTATAAAA 60 TTAAACTTTT TAATAATAAG TGAAATGGGT GATTTCCCCC TGGAGGGATG TCAACAGGCT 120 TAAAATCATT TCCCGGTTTC ATAAAATACA AACTCCTTTG AAAAAGGGAC AAAATCTCTT 180 CATACTTTTG GGGAACGGAT ACTGTGTAAG CCCTCTGTAC AAAAGTTTGG GGTTTTCATT 240 GTTACACTTT GGGGGTTTCC CTTTTCAAGG GGCCCCCCTG TGGGGGGTTT TTTTTTTATG 300 CGGGCAACCA ACTAAATTTT TTTTCCCAAA TGGAATGCCC CGCCCTTTTT TTTCCTAATG 360 TTTTTTGCAA TAAGGGGGC CAAAACCGGG GGAGGGTTTT TCCATGAAAA GGGTTCCTTA 420 AGGGTGAGGG GGAACCACGC TTTGGGGGGG GGTTTTCCTT TTAAGTTTGT GGCCCCAGTA 480 GGGGGGAGAA AGCCCTCCC CCGGGAAACC AGGGTTTGGT TCCCCACGG 529

#### (2) INFORMATION FOR SEQ ID NO:106:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 245 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:106:

CCTGAGAATA GGTCTAGCAT TGTTCCACAC AAAACATTTG AAGGACCCAA ATTTGTAGCA 60

AATTCCATGG CAGTGAAGTT GAGCTGCTAT AGTTAATAAA CTGGGCATTC TTGATACTTG 120

AATATGGAAT ATGTGCACAA GGGAAGTAAA TACAACATTG CACTTTATAA GCACTGTATT 180

GTTAAGTGGG AAATGCAATG TCTTTAAAAT AAAACTGTAT TTAAAATTGG CGCCCCAAAA	240
AAAAA	245
(2) INFORMATION FOR SEQ ID NO:107:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 236 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:107:	
CCTGAGAATA GGTCTAGCAT TGTTCCACAC AAAACATTTG AAGGACCCAA ATTTGTAGCA	60
AATTCCATGG CAGTGAAGTT GAGCTGCTAT AGTTAATAAA CTGGGCATTC TTGATACTTG	120
AATATGGAAT ATGTGCACAA GGAAAGTAAA TACAACATTG CACTTTATAA GCACTGGTAT	180
TGTTAAGTGG GGAATGCAAT GTGCTTAAAT AAAACTGTAT TTAAAATTGG CACCAA	236
(2) INFORMATION FOR SEQ ID NO:108:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 256 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:108:	
CTTTAGAGGA CACACACNCA CGGGGCCGCC GCCCCCAGT AGTCGGTCTT GTAAATGCGC	60
AGTGTCCTAG TGCCCGTTGT CTGCTACCCC GGCCTCGCCC CCGCCCCGCC	120
GACATCCGGG CCCACTCCTT ACCCATCCGG GCCTCCGGCC CCCACTCATC TGCCCTAGAG	180
CGCTCTGTAG AAGGGTGAAT TAGAGTTGTA TTTCTCTTCA CTGGATGTTT CTTATTTATA	240

AAGATTTGAT CTGTTC	256
(2) INFORMATION FOR SEQ ID NO:109:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 272 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:109:	
GCGACACGTT CTGTCATTTA TGTTCCTCCT CCTTTTGCTG CTGCTGCCAT CAATGAAGCT	60
GTTGAGGCGG AAATGCCCTT GGTTGTGTGC ATTACTGAAG GTATCCCACA GCAGGACATG	120
GTGCGGGTCA AGCACAAACT GCTGCGTCAG GGAAAGACCA GGCTGATCGG GCCTAACTGC	180
CCTGGAGTGA TCAATCCTGG AGAATGCAAA ATTGGCATCA TGCTGGCCAT ATTCACAAGA	240
AAGGAAGAGT TGGTATTGTG TCCAGATCTG GG	272
(2) INFORMATION FOR SEQ ID NO:110:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 264 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:110:	
GGAAAGATGG GATTGTATGA AACACTGCAT TTCACAGCAA AGACCTCAGT CCAGAACACA	60
ACACAGGGGA CCAAGTGGAT TCAGGTGTGG TCAAAACTCT GGGGATCACA GTGGGGATAC	120
CACCTCCAGG GCTGGTGACA GATTCAGGAC CCTCCTGGCA CACCCGGGAC CCCAGGGATA	180

AAAGGAGAGA AAGGGCTGCC AGGGCTGGCT GGAGACCATG GCGAGTTTGG GGAGAAGGGA	240
GACCAGGGAT TCTGGAATCA GAAA	264
(2) INFORMATION FOR SEQ ID NO:111:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 257 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:111:	
TTCCAGACGG GAGATTGATT GGAAAAAAA GTAATGTGTT CCATTTAAAA TTTTGGTATA	60
TGGCATTTTC TGACTTAGGA AGCCACAATG TTTTTGTTCT TGGCCCATCA TGACATTGGG	120
TAGCATTAAG TTTTGTGCTT CCAAATCACT TTTGTTTTTA AGGATTTCTT GATCTTGTTA	180
TAGCCTGCCT TCAATTTTGA TCTTTATTCT TTCTATTTGT CAGGTGTACA GGATTACCTT	240
TTTTAGCCTT CTGTCTT	257
(2) INFORMATION FOR SEQ ID NO:112:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 286 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:112:	
ACCCTTTCCT ATGTGTTTTA TCTAATTATT TTGGTTGTTA ATATGGTAAT AATTAAAAGT	60
CAAGGTAAAT TTTAAATATT AAGATTTCTG ATTTATTGAG CTTGACTTAT GCCACCACGC	120
TTATGTAAAA TGAAAGTAGC ACCATGGTGA AACTGAAAAA AGTTGCTCAG TTGTAACAGT	180

TTTGATTTAT TCTTTCTTGT GACCTCTTTC CCTTATTGTC TTGAACCATA GCAAAAGGAT	240
ACTGCATCTC TTAATAATTG TAGTGCTGAG GTTATTGAAG TTATAT	286
(2) INFORMATION FOR SEQ ID NO:113:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 204 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:113:	
GTTATATTGA CTCCTACAAA CATAATCGTA AAGTGAATCT TTGCTCAAGT GTTGTCAAGG	60
GTATATCCTG AGAATAGGGG GAATCAATGG ACGAAGCCTC CTATGATAGC GAATACTGCT	120
CCTATTGACA AGACATAGTG AAAGTGGGCC ACTACGTAAT ATGTGTCGTG AAGAACAATG	180
TCTAGTGAAG AGTTTGCTAG TACA	204
(2) INFORMATION FOR SEQ ID NO:114:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 74 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:114:	
GCTATAGACA CACAACTCTC TCTCTCTCT TCTCTCTCTC TCTCTCTC	60
TCTTTCACTC ACCA	74
(2) INFORMATION FOR SEQ ID NO:115:	

(1) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 230 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:115:	
ACGCTCGTTT TCCAAAGAGA AGAGCGTTGT TTAGAGTAGC GAAATTCGAA GGCTGCTTAG	60
GCGCATTGTA AAGCTGTTGG GGAAATAACT CCACAAGTTT CGTGAGTGGA AATGTAGTGC	120
TCGAAACACA TTCTGCTTTA AAAGGTTGTA ACAAATACAA ACAAATTTAA AAAAAGCTCT	180
GACAAATGTT TTGTGTGGGG AAGCGGGGTT CCAAAATACA GGGCGGCCCC	230
(2) INFORMATION FOR SEQ ID NO:116:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 96 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:116:	
TTGTCATCTC TTCAAGAATT GACAACAGAT TTTGGTTTTC TACTGTCATG TGGAACATTA	60
GGCCCCAGCT TCGGCTCCTT GTGCGAGGAA AATAAA	96
(2) INFORMATION FOR SEQ ID NO:117:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 277 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:117:	
GCATCTGATG GCCTTAAGGG TCGTGTGTTT GAAGTAAGCC TGGCTGATTT GCAGAATGAT	60
GAAGTTGCAT TTAGGAAATT CAAGCTAATT ACTGAAGATG TTCAGGGCAA AAACTGCCTG	120
ACTAATCTCC ATGGCATGGA TCTTACCCGG GACAAAATGT GCTCCATGGT CAAAAAATGG	180
CAGACCATGA TTGAAGCTCA CGTTGATGTC AAAACTACCG ATGGGTATTT GCTTCGTCTC	240
TTTTGTGTCG GTTTTACTAA AAAACGCAAC AATCAGA	277
(2) INFORMATION FOR SEQ ID NO:118:	
<ul><li>(A) LENGTH: 148 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:118:	
CCTTCCAGAA CCCTGAGGAG CAGGATGAAG GCTGGCTCAT GGGCGTGAAG GAGAGTGACT	60
GGAACCAGCA CCTAGAGCTG GAGAAATGTC GGGGCGTCTT CCCCGAGAAC TTCACCGAGC	120
GGGTTCAGTG AGGGCAGCAG CTGCTGAG	148
(2) INFORMATION FOR SEQ ID NO:119:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 244 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:119:	
TCTACGACCA GGCTTTGCAG CAGGCCGTGG TAGACGACGA CGCCAACAAT GCCAAGGCCG	60
TGGTGAAGAC CTTCCATGAG ACGCTCAACT GCTGTGGCTC CAGCACGCTC TCCGCGCTGA	120
CCACCTCCAT TCTCAAGAAC AACCTGTGTC CTTCAGGCAG CACTGTCATC AGCAACTTCT	180
TCAAGGAGGA CTGCCACCAG AAGATCGATG ACCTCTTCTC GGGAAAGCTG TATCTCATTG	240
GCAT	244
(2) INFORMATION FOR SEQ ID NO:120:	
(A) LENGTH: 220 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:120:	
CACCTAAAGA GTTGCCAGGT CTCTGTCACA CATCTCCATT CACAACAGAT AGGGTGTGAT	60
GCTTTTACTA AACTTTCTTA TCCTAGGACC TGCTGCAATG GTTCAAGGAA CTGGAAAGAT	120
GCTTTCTCTT CTTCCTTTCC CTCACTCCAT CCCTGTCTTT ACTCCTCAGA CTTCCTGTAA	180
AACATTAGTA AGATAAGAAT TAAAAGTCAC ACGAATCCAC	220
(2) INFORMATION FOR SEQ ID NO:121:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 65 base pairs	
<ul><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	

60

ATTTGGCTCA GTGGCAGAGC GCTTGCCTAG GAAGAGCAAG GCCCTGGGTT CGGTCCCCAG

CTCCG	65		
(2) INFORMATION FOR SEQ ID NO:122:			
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 65 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:122:			
GGGAGGAGGA GGAAGAGGAG GAAGGAGAGG AGGAGGA	60		
CCTCT	65		
(2) INFORMATION FOR SEQ ID NO:123:			
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 163 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:123:			
GTAATTATTG GCTCAACTTT CCTAATTGTC TGTCTACTAC GACAACTAAA ATTCCACTTC	60		
ACATCAAAAC ATCATTTCGG ATTTGAAGCC GCAGCATGAT ACTGACACTT CGTAGATGTA	120		
GTTTGACTAT TCCTATACGT TTCTATCTAT TGATGAGGAT CCT	163		
(2) INFORMATION FOR SEQ ID NO:124:			
(i) SEQUENCE CHARACTERISTICS:			

(A) LENGTH: 203 base pairs

<ul><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:124:	
GATTTGGAGA AGCCTTCGCA TCAAAACGAG AAGTACGCTC AATTTCCTAC TCCTCAACTA	60
ACCTAGAATG ACTGCATGGA TGCCCCCCAC CCTACCACAC ATTCGAAGAA CCTTCCTACG	120
TAAAAGTTAA ATAAGAAAGG AAGGATTCGA ACCCCCTACA ACTGGTTTCA AGCCAATTTC	180
ATAACCATTA TGTCTTTCTC AAT	203
(2) INFORMATION FOR SEQ ID NO:125:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 231 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:125:	
AAGGATAATG CTGTTTATTA AAAATATACT CAGGAAGTCA GGGTATTGAT GCAATTTTAC	60
ATACGCACTT GGGTAGTCTG AAGTTCCATT ATTCCAGCAG TTTATATAAA TGTTTCAGAT	120
CAAAAGAGAA AGAAAACACT TTACAGAGAC CAGCAGTTGC TTATCAGTTT GGTCATGAGT	180
CTGCTTGTAG TAAAAATAAA ACTCCCTCTT GCATTGCTGA AGAATGTCCT T	231
(2) INFORMATION FOR SEQ ID NO:126:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 269 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

(xi) SE	QUENCE DESC	CRIPTION: SE	EQ ID NO:126	5:		
CAGCTCCCTA	GTACTTTACT	ATTATTTCAC	TAATACTAAC	AACAAAACTA	ACACACAA	60
GCACAATAGA	CGCCCAAGAA	GTAGAAACAA	TTTGAACAAT	CCTCCCAGCT	GTCATTCTTA	120
TCCTAATTGC	CCTTCCCTCC	CTACGAATTC	TATACATAAT	AGACGAGATT	AATAACCCAG	180
TTCTAACAGT	АААААСТАТА	GGACACCAAT	GATACTGAAG	CTATGAATAT	CTGACTATAA	240
GACCTATGCT	TTGACTCCTA	CATAATCCC				269
/2\ TNEODMA	MION BOD CE	O TO NO.125	7 -			

## (2) INFORMATION FOR SEQ ID NO:127:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 347 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:127:

CCATGCTTGT	GACAGACATA	CAGCCACTTC	CAACTAAAGC	AAGCCTCTGC	TTCCTGCTAC	60
CTGCATGGAG	CCCACTGTGA	CACTCAGACC	ATCCCCGGTC	ACTCACTCGT	GTCTGAGAAT	120
CTCAGTGAGA	GCTGCCTCTG	TCACGGACGG	AAGCCAACAC	AGCCACCTCT	CGACCTGGCT	180
CCCCACAGCA	CCCACCCTCC	CTGCATGCAG	CTGTCCCTGC	TAACCCCAA	TGTTATGTTA	240
CACTGTGTAA	ATCCCCACTG	CTGCCGTGTG	TGGGTTGTGT	ACGTCGTCAT	GTCCTGGTTT	300
ATAACTATGG	TGCGGTCGGG	AAGGATTCCT	GTAATGCTGC	TCTAAGA		347

# (2) INFORMATION FOR SEQ ID NO:128:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 323 base pairs

(B) TYPE: nucleic acid

CGTTTGTTCA ACGATTAAAG TCCTACGTGA TCTGA

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:128:	
CCTAGACTCA CAAGTCAAAG TAATACTAAT ATCTTATTGA CCCAATTATT GATCAACGGA	60
CCAAGTTACC CTAGGGATAA CAGCGCAATC CTATTTAAGA GTTCATATCG ACAATTAGGG	120
TTTACGACCT CGATGTTGGA TCAGGACATC CCAATGGTGC AGAAGCTATT AATGGTTCGT	180
TTGTTCAACG ATTAAAGTCC TACGTGATCT GAGTTCAGAC CGGAGCAATC CAGGTCGGTT	240
TCTATCTATT TACAATTTCT CCCAGTACGA AAGGACAAGA GAAATGGAGC CTCCTTACCA	300
TAAGTGCTCC CAACCAATTT ATG	323
(2) INFORMATION FOR SEQ ID NO:129:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS: <ul> <li>(A) LENGTH: 335 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:129:	
GCTTCAATTT ACTAGTTCAA CTTATATAAA AACAACCTAA TGGGCTAAAA CAAAATAAAT	60
ATGAACTAAA AAATTTCGGT TGGGGTGACC TCGGAGAATA AAAAATCCTC CGAATGATTT	120
TAACCTAGAC TCACAAGTCA AAGTAATACT AATATCTTAT TGACCCAATT ATTGATCAAC	180
GGACCAAGTT ACCCTAGGGA TAACAGCGCA ATCCTATTTA AGAGTTCATA TCGACAATTA	240
GGGCCCACGA CCTCGATGTT GGATCAGGAC ATCCCAATGG TGCAGAAGCT ATTAATGGTT	300

335

## (2) INFORMATION FOR SEQ ID NO:130:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:130:

AGAGATATCG GAACCCTCTA CCTATTATTT GGAGCCTGAG CAGGAATAGT AGGGACAGCT 60
TTAAGTATTC TAATTCGAGC TGAACTAGGA CAGCCAGGCG CACTCCTAGG AGATGACCAA 120
ATCTATAATG TCATCGTCAC AGCCCATGCA TTCGTAATAA TTTTCTTTAT AGTAATACCT 180
ATAATAATTG GAGGCTTCGG GAACTGACTT GTACCACTAA TAATTGGAGC CCCTGATATA 240
GCATTCCCAC GAATAAATAA CATAAGCTTT TGACTGCTTC CTCCATCATT TCTACTCC 298

## (2) INFORMATION FOR SEQ ID NO:131:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 329 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:131:

GAGCTGTTGC CAGTGTAAAG ACAGCAAACA TGGACACTCT CGCACTGTGC ATCACAAAGC 60
TAACAAATCG AAATCTTGAA TGCAGTCTGT CCTAAGTCCA GGCAAGTGAC AGCCATGTGT 120
GTCTGCAGTG CTGTGTCACC ACGTCCTGCA TTGTTGGAGC TGCTGCAGGG ACACTGAGAT 180
GAGCAGGTTC TTTGGAAAGA ACTGTTGTGC TCCTCAAAGC AGTGTTCAGA TTTTAAAGGT 240

300

120

180

224

TCTTAGCCTC CTCAGTTCCT TATGTGGAAC TGTAGGATCC CCTTCATAAA TTTTTAAAGT

GCTTATGTGA TCCAATTGGT CTACATTTT	329
(2) INFORMATION FOR SEQ ID NO:132:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 224 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:132:	
CTTTAGAGAA GGCAGGTCTT ACAAACACTA CAGAAAAGCC GTTTGGACGT AAAAATCCAA	60

GGAGAAAGGA GTCATTAGGA AATGTAACAT AGGACACAGA ACGCATGTTG TGTGATGGTC

CACCGGGAAG GTCACAGACG ACTTCAGGCT TCAGGCGCAA CGTC

CCTTCTCTTC CGTGTGGTTC CAGAATATGC TCCTGACCCC AGAGCCGCCA CCTGAGCGCG